



>>Entry Name: 2-Aminohexanedioic acid, 9CI

Synonym(s): 2-Aminoadipic acid. Homoglutamic acid



CAS Registry Number: 542-32-5

Related CAS Registry Numbers(s): 5632-90-6 14258-23-2

Molecular Formula: $\text{C}_6\text{H}_{11}\text{NO}_4$

Molecular Weight: 161.157

Accurate Mass: 161.068809

Percentage Composition: C 44.72%; H 6.88%; N 8.69%; O 39.71%

pKa Value: $\text{p}K_{\text{a}3}$ 9.73 (20°, 0.1M KNO_3)

Aldrich: 12471-0

Sigma: A0637

>>Variant: (R)-form

CAS Registry Number: 7620-28-2

Molecular Formula: $\text{C}_6\text{H}_{11}\text{NO}_4$

Molecular Weight: 161.157

Accurate Mass: 161.068809

Percentage Composition: C 44.72%; H 6.88%; N 8.69%; O 39.71%

Biological Source: Obt. from hydrol. of Penicillin N [HKT04-J](#)

Physical Description: Cryst. (H_2O)

Melting Point: Mp 205-207°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -25$ (5M HCl)

Aldrich: 28504-8

Fluka: 6654

Sigma: A7400

>>Variant: (S)-form

CAS Registry Number: 1118-90-7

Molecular Formula: $\text{C}_6\text{H}_{11}\text{NO}_4$

Molecular Weight: 161.157

Accurate Mass: 161.068809

Percentage Composition: C 44.72%; H 6.88%; N 8.69%; O 39.71%

Biological Source: Found in leaves, roots and seeds of green plants e.g. *Linaria annua*, *Medicago sativa*, also prod. by fungi and microorganisms

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 204-206 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +25$ (5M HCl)

Aldrich: 27192-6

Fluka: 6653

Sigma: A7275

>>Derivative: 6-Amide

Synonym(s): 6-Oxolysine, 9CI. 5-Carbamoylnorvaline, 8CI. 2-Amino-5-carbamoylpentanoic acid. 2-Aminoadipamic acid. Homoglutamine

CAS Registry Number: 7433-32-1

Molecular Formula: $\text{C}_6\text{H}_{12}\text{N}_2\text{O}_3$

Molecular Weight: 160.172

Accurate Mass: 160.084793

Percentage Composition: C 44.99%; H 7.55%; N 17.49%; O 29.97%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 185-187°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +21.1$ (c, 1 in 1M HCl). $[\alpha]_{\text{D}}^{25} +1.5$ (c, 0.6 in H_2O)